

1 IN THE UNITED STATES DISTRICT COURT

2 IN AND FOR THE DISTRICT OF DELAWARE

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4 RESEARCH FOUNDATION OF STATE

UNIVERSITY OF NEW YORK, et al., : CIVIL ACTION

5 Plaintiffs, :

6 v. :

7 MYLAN PHARMACEUTICALS, INC., :

8 Defendant. :

NO. 09-184-LPS

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MYLAN PHARMACEUTICALS, INC.,

10 Plaintiff, :

11 v. :

12 GALDERMA LABORATORIES, INC., :

GALDERMA LABORATORIES, L.P., and :

13 SUPERNUS PHARMACEUTICALS, INC., : NO. 10-892-LPS

14 Defendants.

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15 Wilmington, Delaware

16 Friday, July 8, 2011

BENCH TRIAL - VOLUME D

18 - - -

19 BEFORE: HONORABLE **LEONARD P. STARK**, U.S.D.C.J.

20 APPEARANCES:

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Official Court Reporter

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P R O C E E D I N G S

(REPORTER'S NOTE: The following trial proceedings was held in open court, beginning at 9:31 a.m.)
good morning, everyone

(The attorneys respond, "Good morning, your Honor.")

THE COURT: We are hear for closing argument.
Mr. Flattmann.

MR. FLATTMANN: Yes, your Honor. With the Court's permission, I'd like to hand up some slides that would assist me in my closing.

THE COURT: That would be fine. I have gotten used to that practice.

MR. FLATTMANN: Yes, your Honor.
May I proceed, your Honor?

THE COURT: You may.

MR. FLATTMANN: Your Honor, on Tuesday morning, I previewed the evidence that we would adduce on direct and cross-examination, and I promised we would meet our burden on infringement, and I predicted that Mylan would fail to meet its heavy clear and convincing burden of proving invalidity of its three sets of patents. I submit we have fulfilled that promise and that Mylan had indeed failed far short of meeting its heavy burden of proving invalidity.

1 I'd like to go back to each of those promises
2 and predictions and walk us through the evidence that we
3 have adduced and trial and match our opening statement
4 essentially to our proofs at trial.

5 Your Honor, it's clear that Mylan infringes all
6 three sets of the patents. Galderma has proven infringement
7 by a preponderance of the evidence here.

8 First, the Chang patent. Mylan has already
9 conceded infringing most claims of the Chang patent, and
10 this Court entered an stipulation and order to that effect
11 back in March. Only asserted claims 4 and 18 of the Chang
12 patent are still at issue. As you can see, both of those
13 claims require steady state blood levels of doxycycline of
14 between .3 and .8 micrograms per mil. But the evidence was
15 clear that Mylan infringed claims 4 and 18, even before a
16 single expert testified in this case.

17 The pivotal pharmacokinetic study that Mylan
18 relies on directly in its label already shows that patients
19 taking Mylan's drug will have steady state plasma
20 concentrations of doxycycline between .3 and .8 micrograms
21 per mil.

22 As you may recall from Galderma's opening
23 statement, Mylan has already admitted infringement of these
24 claims on other occasions. At the preliminary injunction
25 hearing, Mylan's counsel acknowledged that its generic

1 product will result in a doxycycline concentration in
2 patients of .6 micrograms per mil which is square in the
3 middle of the range, and Mylan's own statement of contested
4 facts in the pretrial order says that the mean trough
5 concentration is .3 micrograms per mil.

6 THE COURT: Are either of those actually
7 evidence on the slide there?

8 MR. FLATTMANN: Well, the statement of contested
9 facts is evidence that the Court can consider because it's
10 an admission by Mylan incorporated into the pretrial order,
11 but I will also show the Court that these statements appear
12 in the testimony at trial.

13 THE COURT: Maybe they prove that their proposed
14 fact is not actually a fact.

15 MR. FLATTMANN: Well, I was going to suggest
16 that that is what they attempted to prove, but their experts
17 admitted it nonetheless.

18 In particular, as we see from this slide, Mylan's
19 expert Dr. Chambers admitted that the Cmax concentration was
20 .6 micrograms per mil. He did so here in open court; and he
21 admitted that the trough concentration of Mylan's generic
22 product was .3 micrograms per mil. That is just what Mylan
23 said in its uncontested facts, and he verified it and
24 confirmed that. That proves infringement.

25 Dr. Friend's testimony was consistent with that

1 as well, your Honor, yesterday.

2 Indeed, I think as your Honor just recognized,
3 by the end of yesterday, after the testimony of Dr. Chambers
4 and Dr. Friend, Mylan was essentially reduced to challenging
5 its own statement of contested facts in the pretrial order.
6 It even went so far as to redirect Dr. Friend on the
7 exhibits that support its own statement of contested facts
8 in the pretrial order in an attempt to prove that they don't
9 support those asserted facts. That's remarkable.

10 Now, on top of these multiple concessions, we
11 put in affirmative proofs. Dr. Rudnic affirmatively
12 established that patients taking Mylan's generic product
13 would meet the claimed steady state plasma concentrations
14 recited in the claim of between .3 and .8 micrograms per
15 mil, But Mylan now says that all of the blood levels must
16 fall between .3 and .8 at all times. Now, that wasn't the
17 Court's claim construction, and it isn't the law.

18 Mylan and its experts admit that the steady
19 state trough is .3 and the Cmax is .6. Therefore, Mylan's
20 product will admittedly fall in the range and patients will
21 have blood levels within this range. However you parse the
22 data, that is infringement. So as such, your Honor, we
23 submit that Galderma has proven Mylan's infringement of
24 claims 4 and 18 of the Chang patent by a preponderance of
25 the evidence and infringement of the other asserted claims

1 has been stipulated to.

2 I'll turn to the infringement of the Ashley
3 patents, but first I'd like to make a bigger picture
4 observation. I put Mylan's 50-milligram doxycycline label
5 for its approved 50-milligram product up on the screen.

6 Mylan's story concerning the Ashley patents is
7 internally inconsistent, and it doesn't make sense.

8 MR. STEUER: Your Honor, this isn't an exhibit.

9 MR. FLATTMANN: I didn't say it was.

10 THE COURT: If that is an objection, it's
11 overruled. It's a demonstrative.

12 MR. FLATTMANN: Right. There is abundant
13 testimony of record concerning the 50-milligram product, and
14 we are simply illustrating that. But their story doesn't make
15 sense, your Honor. Mylan's expert, Dr. Gilchrest agrees with
16 us that Oracea has sub-antimicrobial activity, but she says it
17 isn't new. Mylan's other expert, Dr. Chambers says it doesn't
18 even exist.

19 Now, we'll talk about the various admissions
20 that contradict Dr. Gilchrest's opinions, but her basic
21 theme is that 30- and 40-year old prior art taught that
22 sub-antimicrobial dose of doxycycline could treat rosacea.
23 She believes, however, that this same art taught both
24 40 milligrams of doxycycline, namely Oracea, and 50 milligrams
25 of doxycycline, and that both would work as well, just as well

1 against Oracea, with no difference in side effects due to
2 antimicrobial activity.

3 Now, Dr. Chambers apparently didn't read the
4 same references. He believes that 40 milligrams of Oracea
5 and 50 milligrams of doxycycline are essentially equal,
6 and that both of those products would, in fact, act as
7 antibiotics in inhibiting flora growth and et cetera.

8 But Mylan already makes a generic 50-milligram
9 doxycycline product, your Honor. If that product is no less
10 effective and no less safe than Oracea, as Dr. Gilchrest says,
11 and is no more effective in avoidance of antimicrobial activity,
12 as Dr. Chambers says, why do they need to copy Galderma's
13 product? Why do they want to spend millions of dollars on
14 lawyers in this litigation when they would have us believe
15 they're already selling it in the form of the 50-milligram
16 product? And how do they explain the tremendous commercial
17 success that they all admit that Galderma has achieved?

18 Doctors don't get fooled by pharmaceutical
19 company advertising. You can look at what Dr. Gilchrest
20 eloquently said about this a couple days ago.

21 She agreed that most doctors try to prescribe
22 the best drug for their patients and, in her view, "all
23 physicians endeavor to make informed decisions based on
24 information and not on advertising materials but based on
25 objective evidence."

1 That is why Oracea has been successful, and that
2 is why Mylan wants to copy.

3 Now, your Honor, on the strength of her own
4 independent analysis of the data, Mylan's expert Dr. Gilchrest
5 only first started prescribing 40 milligrams of doxycycline
6 for rosacea after Galderma's product Oracea was approved and
7 launched, after the product that is indisputably covered by
8 the same patents Dr. Gilchrest now says are invalid was first
9 invented, developed and sold.

10 Let's take a look at the claims and look at the
11 evidence in a little more depth. Specifically, with regard
12 to infringement, both Ashley patents have subantibacterial
13 claim limitations which Mylan meets. Mylan's label says so.

14 The Court's construction of this claim limitation
15 appears on the right-hand column here. This was the same
16 construction argued by Mylan and adopted by the Court. If
17 you compare the Court's construction of the limitation with
18 Mylan's label in the left-hand column, we see that Mylan's
19 proposed ANDA product meets the subantibacterial claim
20 limitation. By example, the Court said, subantibacterial
21 amount means it does not significantly inhibit the growth of
22 microorganisms and the label says it should not be used for
23 reducing the numbers or eliminating microorganisms associated
24 with any bacterial disease.

25 As you may recall, Mylan's positions on this

1 are directly contradicted by the label. The contrast is
2 remarkable. As Dr. Webster testified, Mylan's label reads
3 right on the subantibacterial amount in many ways. It does
4 so where it says that there was no detectible long term
5 effects on bacterial flora in a number of different body
6 cavities and tissues, it says so when it says that bacteria
7 is not significantly reduced or eliminated, and it says so
8 in about three or four other ways.

9 Now, it's not just Dr. Webster who testified that
10 Mylan infringes the subantibacterial amount limitations.
11 Dr. Gilchrest did, too. She repeatedly admitted that 40
12 milligrams a day of doxycycline or 20 milligrams twice a day
13 of doxycycline does not alter bacterial flora. With reference
14 to Periostat, 20 milligrams twice a day, she said it would not
15 be appropriate to use in an anti-infection, and that it was
16 subantibacterial. She called it a subantibacterial dose on
17 several occasions.

18 So through their own experts, and through the
19 affirmative proofs that we put in with Dr. Webster, Galderma
20 has met its burden of proving by a preponderance of evidence
21 that Mylan's ANDA product infringes.

22 Now, Dr. Chambers, I submit his continually
23 shifting testimony on this issue or, as he termed it once on
24 redirect, his wobble, doesn't change the basic underlying
25 facts. He completely reversed his position and he

1 jettisoned all of his early arguments regarding predictions
2 from in vitro data. He even ran from his own MIC chart.
3 But he runs from there right into the in vivo studies, the
4 same in vivo studies that Mylan relies on for its label
5 claims of no significant reduction of bacteria.

6 He relies on a new theory that purportedly
7 shows in vivo data of antibiotic resistance in the Haffajee
8 article. His testimony on the Haffajee article, which Mylan
9 did not present to the FDA and did not include on its label
10 and did not rely on for its labeling claims, was at best
11 inconsistent, your Honor.

12 He admitted on cross that Haffajee failed to
13 show any significant inhibition of growth. To use his own
14 words again, he wobbled when he was confronted with the
15 Haffajee statement that the source of the observed bacterial
16 resistance could not be determined. That that question
17 could not be answered.

18 Now, Dr. Chambers criticizes the studies
19 actually considered by the FDA and actually presented by
20 Mylan to the FDA because they didn't have positive controls,
21 supposedly. But he admitted, when pressed, that Haffajee
22 didn't have a real positive control either. It didn't compare
23 the 20 milligrams of doxycycline to any other tetracycline
24 compound, much less a higher dose of doxycycline. In fact,
25 your Honor, the only time that Dr. Chambers showed any

1 bacterial resistance at all was when it was a hypothetical
2 example entirely unsupported by any actual data.

3 Your Honor, as I said, Dr. Chambers runs from
4 the in vitro data that he had previously embraced and right
5 into the in vivo studies that Mylan relies on for its label
6 claims of no significant reduction of bacteria. The
7 contrast between his testimony on these studies on direct
8 and cross was remarkable.

9 On direct, he criticized all of the studies
10 by cherry-picking data around the margins. On cross, he
11 embraced all of them. He said they were all sound and true.
12 He admitted they all supported the Mylan label claim. He
13 admitted Mylan adopted all of them. That was clear from his
14 testimony.

15 We saw that for each of the Skidmore, Walker
16 2005, Walker 2000 and Thomas studies.

17 And as you can see from the testimony here in
18 PDX-822, he admitted the same thing about Walker 2005 on
19 cross-examination. It supported the label.

20 Now, he couldn't run from Mylan's label either,
21 although he tried. He tried to say that the label didn't
22 match the claims, but on cross he admitted that the label
23 says that Mylan's product will not reduce the numbers or
24 eliminate microorganisms associated with any bacterial
25 disease. He agreed with that statement. He agreed that

1 that matched the Court's claim construction of subantimicrobial
2 amount. Namely, that it meant no significant inhibition of
3 growth of microorganisms.

4 Now, he tried to say that FDA didn't actually
5 agree even though they approved the label, but on cross, he
6 admitted that FDA actually removed the word "antibiotic"
7 from the Oracea label.

8 He ultimately had to admit that he was also
9 engaging in speculation as to FDA's intentions or motives in
10 not approving a label claim that the amount of doxycycline
11 is "well below" a significant inhibitory amount. He didn't
12 know what that meant or what either CollaGenex or FDA
13 intended by that or what the motives were regarding those
14 words.

15 Now, Mylan suggested that to meet our burden on
16 infringement, we need to demonstrate its product will not
17 significantly inhibit the growth of any of the millions of
18 bacteria in body tissues. That, again, was not the Court's
19 claim construction. Those words do not appear in the claim
20 or in the patent, and that is not the standard for proving
21 infringement.

22 The Mylan label says directly that its product
23 will not reduce bacteria. It will not significantly inhibit
24 growth in several different ways, in fact. Mylan's Vice
25 President of Regulatory Affairs, Mr. Talton admitted in his

1 testimony that that is true, and that Mylan has developed
2 no clinical data to the contrary.

3 Mylan has not shown that its product will
4 significantly inhibit the growth of bacteria, of any
5 bacteria for that matter. It must be held to its label. It
6 must be held to what it told the FDA and what it is going to
7 tell patients and doctors, and that establishes infringement.

8 So, once again, your Honor, Galderma has proven
9 by a preponderance of the evidence that Mylan's product
10 infringes the Ashley patents.

11 I'll turn to the Amin patents now.

12 Mylan and its experts simply failed to rebut
13 our infringement proofs concerning the Amin patents. First
14 of all, Mylan does not even contest and both Galderma and
15 Mylan's experts have testified that production of nitric
16 oxide and iNOS leads to a number of downstream effects,
17 including vasodilation, erythema, increased microvascular
18 permeability, leucocyte invasion, and edema.

19 Now, both Galderma and Mylan's experts further
20 testified and agreed that these effects lead to the signs
21 and symptoms of rosacea, including papules and pustules.
22 And this is from Robbins' testimony.

23 Moreover, Mylan also doesn't contest, and
24 again both Galderma and Mylan's experts have testified, that
25 doxycycline decreases the production of nitric oxide from

1 iNOS. This is again Dr. Robbins' testimony and part of the
2 statement of uncontested facts in this case.

3 In fact, Mylan's expert, Dr. Robbins has
4 testified that work from his own laboratory has shown that
5 doxycycline decreases the production of nitric oxide.

6 Also, Mylan's 40-milligram doxycycline generic
7 product plainly infringes because, as its own expert
8 Dr. Robbins has testified, the use of Mylan's ANDA in
9 accordance with the label is effective in inhibiting the
10 papules and pustules of rosacea, which, as we know, are the
11 result of increased production of nitric oxide, based on the
12 testimony of both sides' experts.

13 So Mylan simply could not dispute these basic
14 facts. As a result, they can't rebut our proofs. If you
15 use the product in accordance with the label, it will
16 infringe.

17 So, your Honor, as such, we submit that Galderma
18 has proven infringement of all three sets of patents at
19 issue here. Mylan has already agreed it infringes most of
20 the claims of the Chang patent. Galderma has set forth
21 sufficient evidence that Mylan infringes the other patents
22 and claims as well.

23 I'll turn to validity, your Honor.

24 Now, Mylan has fared no better on its invalidity
25 defenses. That is because as to all three sets of patents,

1 Mylan's proofs fell short of its heavy burden showing
2 invalidity by clear and convincing evidence. The fact that
3 Mylan has now retooled and reconfigured and rejiggered the
4 piles of art in the last two weeks hasn't helped. Neither
5 did Mylan's last minute effort during trial to add and drop
6 still more references.

7 I'll start with the Ashley patents. The patents
8 are valid, and Mylan hasn't proved otherwise. It hasn't met
9 it clear and convincing burden.

10 Dr. Gilchrest, on cross, testified consistently
11 with her deposition. She had to admit none of her cited
12 art came close to disclosing the treatment of rosacea with
13 a subantimicrobial amount of tetracyclines, much less
14 40 milligrams of doxycycline.

15 She dropped three of her nine references to
16 avoid their explicit disclosure of antibiotic activity, and
17 she admitted that none of the remaining references disclosed
18 antibacterial amounts.

19 She admitted that none of the new references
20 she added to her argument disclosed subantibiotic amounts
21 either, and that they also didn't disclose non-reduction of
22 microflora.

23 Now, in view of these glaring deficiencies
24 in their proofs, on direct, she tried to supplement the
25 disclosures of articles like Murphy and Cotterill by

1 combining them with teachings from art that is nowhere
2 listed in Mylan's statutorily required Section 282 notice.
3 I think we exposed that attempt on cross and confirmed that
4 the six references on which she actually and legitimately
5 relies fall short of the claims, and so does the additional
6 prior art that she recently added.

7 Now, Dr. Gilchrest says that Ashley is obvious
8 in view of this art but she could provide no explanation for
9 why no one developed this invention for decades after this
10 art was published. Very tellingly, she testified that she
11 never heard of anyone using doxycycline in an amount of less
12 than 50 milligrams to treat rosacea, and she, herself didn't
13 do that until Oracea was launched.

14 Now, let's take a look at some of her references.
15 She admits that she is also relying on six of them now. She
16 admits that none of them anticipate Ashley because none
17 discloses a subantibacterial amount, and none disclose
18 failure -- a lack of significant inhibition. None disclose
19 anything about microflora.

20 Your Honor, these are glaring deficiencies in
21 their proofs. These are critical limitations of the claim.
22 They're not in the art. The art doesn't anticipate, by
23 their own expert's admission.

24 Now, Dr. Gilchrest also admitted that none of
25 the six references discloses the treatment of rosacea with

1 any amount of doxycycline. That's fairly definitive. And
2 none disclose any antibiotic in an amount of less than
3 100 milligrams a day. The art was pointing in exactly the
4 opposite direction.

5 Mylan continues to rely at trial on the
6 Pflugfelder patent, although it has now been relegated to
7 its role as an obviousness reference as opposed to an
8 anticipation reference. Your Honor recalls that the PTO
9 believed this to be the closest prior art but found that it
10 was deficient and could not invalidate the claims that Mylan
11 has pushed on.

12 At trial, Dr. Webster and Dr. Gilchrest both
13 testified that Ashley issued over the Pflugfelder patent and
14 Dr. Gilchrest in particular admitted that she dropped
15 Pflugfelder as an anticipatory reference because it doesn't
16 even disclose the disease we're talking about here. As she
17 admitted, it doesn't explicitly teach a method for treating
18 the papules and pustules of rosacea.

19 Now, as I have mentioned, Mylan recently added
20 these five additional and even more distant references to
21 support its invalidity defense. Now, although these
22 references were cited a long time ago in one of Mylan's
23 interrogatory responses, they have only recently resurfaced.
24 Adding more art to the pile at the last minute didn't help
25 Mylan meet its burden, though, because as Dr. Gilchrest

1 admitted, none of these new references anticipates or
2 renders obvious the claims, and she said none of them
3 disclose the use of subantibacterial amounts to treat
4 rosacea. It's clear on their face, they're even more
5 distant than what came before.

6 Drs. Webster and Gilchrest both testified that
7 none of these references say anything at all about the use
8 of subantibacterial amounts of tetracyclines to treat acne
9 or rosacea.

10 The fact that Mylan felt the need to drag in
11 these references as prior art at the last minute speaks
12 volumes. The fact that it tried to bring in still more
13 prior art that wasn't even on its 282 statement tells us
14 that Mylan fully appreciates the deficiencies in its
15 invalidity case. It's right through trial.

16 Now, your Honor, since the time of its paragraph
17 4 notice, only one reference has survived the reshuffling
18 and the rejiggering that Mylan has engaged in: the
19 Pflugfelder reference. Mylan has only continued to stack
20 more art and more and more art into the pile, some that is
21 not even on the 282 notice. I showed the Court an example
22 of this during the cross-examination of Dr. Gilchrest.

23 But it's quite telling in the new art that
24 they have cited and the non-282 art is even more distant,
25 as Dr. Gilchrest admitted on cross. All of that art went

1 to antibiotic amounts, antibiotic activity, or just was
2 silent on the topic.

3 Now, you will recall that Dr. Gilchrest used
4 this chart and charts like it in an attempt to prove
5 invalidity. These charts I think we revealed on cross
6 showed an attempt to supplement the disclosures of the
7 Murphy and other references at trial with so-called
8 state-of-the-art references.

9 In particular, this one refers to the element, in
10 a subantibacterial amount that reduces lesion count; and it
11 says Murphy administered 125 milligrams of oxytetracycline for
12 six to twelve months, a dose that will not affect bacterial
13 flora and in sebaceous glands in the skin.

14 The only problem with this chart is that Murphy
15 doesn't say anything about that. Murphy doesn't say
16 anything about bacterial flora or bacterial flora in
17 sebaceous glands. That is from a different reference, a
18 non-282 reference.

19 When pressed, Dr. Gilchrest admitted that Murphy
20 and Cotterill contained no mention of subantibac -- microbial
21 amounts or reduction in skin microflora in sebaceous glands.
22 So she basically invalidated her own charts in Mylan's
23 attempt to fill the void in its evidence with non-Section
24 282 references under this Court's order during the case
25 concerning the non-Section 282 references. It can't even

1 attempt to succeed in that effort.

2 Dr. Feldman. After having watched over an hour
3 of deposition testimony, all we know about Dr. Feldman now
4 is what we knew before trial. That his alleged uses of
5 Periostat were uncorroborated private uses, if they happened
6 at all. They don't qualify as prior art.

7 Dr. Feldman's alleged use was not corroborated
8 or public in 1999 or 2000, and it certainly wasn't
9 corroborated by any witness at this trial. All we have
10 is the overwhelming evidence from Dr. Feldman, himself or
11 the lack of evidence showing that those alleged uses were
12 unpublished, undisclosed, unappreciated, uncorroborated,
13 and undeveloped.

14 Your Honor, there is good reason for the
15 corroboration requirement under the law. It's so people
16 can't come in years later with no supporting evidence and
17 say they invented it and take patents away from the real
18 inventors.

19 Here, Dr. Feldman doesn't say he invented anything.
20 Why is that? The evidence from Dr. Feldman's testimony shows
21 he didn't publicly disclose any use of Periostat. He did not
22 disclose the idea to other dermatologists, nor did he write
23 anything about the use or publish it, nor did he ever attempt
24 to sell the idea or speak to CollaGenex or anyone else about
25 it or attempt to patent it.

1 There was simply, and is simply, no evidence
2 that Dr. Feldman ever even prescribed the Periostat to a
3 single patient to treat rosacea. No one has ever seen this
4 alleged prescription. We don't know if the use ever happened,
5 and neither does Dr. Feldman, according to his testimony.

6 At trial, both of Mylan's experts, Drs. Gilchrest
7 and Stafford had to admit that. They had to admit that they
8 didn't know if the patient filled her prescription, if it
9 existed at all, or if the patient took the drug, much less got
10 better.

11 THE COURT: On these factual disputes, whether a
12 patient took it, whether it is prescribed, who has the
13 burden of proof, and what is the burden of proof?

14 MR. FLATTMANN: Well, the burden of proof is clear
15 and convincing evidence, your Honor, and falls squarely on
16 Mylan.

17 THE COURT: Even on these factual predicates for
18 their clear and convincing argument, for their invalidity
19 argument?

20 MR. FLATTMANN: Absolutely, your Honor. They
21 have the burden of establishing there is any prior art at
22 all. They haven't come forward with any evidence that there
23 was any filling of the prescription or taking of the drug by
24 the patient, so they haven't met their clear and convincing
25 burden of proving invalidity because they can't even meet

1 their burden of proof of showing it was prior art.

2 I really think that is a very important point.

3 No one in this entire case can say with any certainty at all
4 that the patient took the drug, not even Dr. Feldman. There
5 is no proof, just speculation. I'll get into that.

6 First, Dr. Gilchrest. She can't corroborate the
7 story. She doesn't have any firsthand knowledge. All she
8 has to go on is what Dr. Feldman says. Dr. Feldman says he
9 doesn't know if the patient filled the prescription, so, of
10 course, nor does Dr. Gilchrest. She admitted that on a
11 couple of occasions.

12 Dr. Gilchrest also admitted that we can't
13 simply speculate or assume that the patient took the drug
14 because patient noncompliance has been a problem for
15 thousands of years.

16 To make a separate point, your Honor, she
17 admitted that she had not even taken account of the fact
18 that as shown in Plaintiff's Trial Exhibit 470, Ashley's
19 invention was conceived before Dr. Feldman's uncorroborated
20 alleged use. That article references a telephone conference
21 about the clinical trials for Periostat on February 17th,
22 2000 with the FDA. That's the very latest date on which
23 this invention could have been conceived by Dr. Ashley, and
24 that predates this alleged uncorroborated prior use.

25 Moreover, Dr. Gilchrest admitted that she is not

1 aware of anyone who prescribed a dose of less than 50
2 milligrams of doxycycline, which is an antibiotic dose for
3 the treatment of rosacea prior to April 2001.

4 Now, given her expertise and her prominence in
5 the field for many decades, if anyone would have known, she
6 would have. You can bet, your Honor, that Mylan's attorneys
7 scoured the world looking for this evidence. It doesn't
8 exist.

9 Neither she, nor Dr. Webster ever heard of this
10 supposed conference that Dr. Feldman referred to. Mylan has
11 failed to prove anything about the conference. We don't
12 have any evidence about it, no notes, no dates, no papers,
13 no agenda.

14 Again, if all this happened, they would have
15 heard about it. They would have known of it. It would have
16 been published. It would have been publicly known. It
17 wasn't.

18 Dr. Stafford, who was Mylan's expert on the IMS
19 data, admitted during trial that it's not possible to directly
20 link the patient who was allegedly prescribed Periostat with
21 the patient who later filled the prescription. That's because
22 IMS data simply does not address the important questions here.
23 It doesn't say who the patients are, and it doesn't say what
24 the drug was prescribed for. There was no dispute on that.

25 In the end, Dr. Stafford's testimony was

1 speculation. It was likely that the patient was the one
2 that Feldman prescribed for. It was likely that she filled
3 the prescription. Mylan adds a few more likelies to the
4 equation: that she took it, that it worked, et cetera, but
5 it has no evidence on any of these points, and likelies from
6 experts and speculation from Mylan are not a substitute for
7 proof of clear and convincing evidence, your Honor.

8 In summary, all Mylan could do is speculate
9 about Feldman's alleged prior uses. In the end, this
10 Feldman experiment amounts to nothing but a failure of
11 proof.

12 I will now turn to the Chang patent, your Honor.

13 In the opening statements, we previewed the
14 collection of art that Mylan was asserting against the Chang
15 patent. First, your Honor will recall that Mylan had a large
16 stack of 18 references. Right before trial, the pile shifted
17 and reconfigured. Even after Dr. Rudnic's testimony, Mylan's
18 pile changed again. In the end, we were left with four
19 references. So it's been constantly morphing throughout the
20 course of even the trial.

21 As we heard yesterday from Dr. Friend, Mylan's
22 invalidity arguments now rest on these four references:
23 the Ashley controlled-release references, it's the '854
24 application; the Ashley patents-in-suit here, I'll call
25 them the rosacea references and the '932 application; an

1 amphetamine patent, which is the '819 patent; and a
2 minocycline patent, which is the Sheth '304 patent. So
3 I'll call these the four Friend references collectively.

4 Your Honor, none of those references came close
5 to disclosing all the elements of the asserted claims or
6 making them obvious.

7 Galderma presented an expert on the validity of
8 the Chang patent who I will submit his credentials were
9 pertinent and beyond dispute. Dr. Rudnic has been involved
10 in the formulation development of over 80 commercial
11 products, and they have combined sales of over \$1 billion.
12 He is the inventor of the patent that the Patent Office
13 regards as the closest prior art to Chang. He is the
14 inventor and codeveloper of the Shire Microtrol technology
15 that Mylan asserted was the technological foundation for
16 the Chang formulation. Dr. Rudnic explained how and why
17 Mylan's prior art is irrelevant to the invention of Dr.
18 Chang.

19 What did Mylan do in response? In response,
20 Mylan presented two experts who denigrated the work of
21 Dr. Chang as pedestrian formulation development, even
22 though neither of them had, in their long careers, ever
23 accomplished Dr. Chang's so-called pedestrian act of
24 developing so much as a single drug formulation that ever
25 made it to the market.

1 So perhaps it was fitting for Mylan to present
2 two experts that were so bereft of successful formulation
3 development experience. Both were asked to opine on two
4 references, the Ashley references, that are somewhat
5 analogously totally bereft of any formulations.

6 I think we foreshadowed in our opening and
7 have now proven that Mylan would have the Court invalidate
8 a formulation patent, Chang patent, on anticipation grounds,
9 no less, based on stitching together random excerpts of
10 two references that, even taken together, don't disclose a
11 single example of any formulation. That is contrary to the
12 black letter law that anticipation requires that a single
13 prior art reference disclosed the limitations of the claim
14 as they're arranged in the invention, your Honor.

15 Can we put up DDX-615, please?

16 Your Honor will recall that Mylan used an
17 anticipation claim chart in Dr. Friend's testimony, DDX-615.
18 This is ultimately no more than random pieces from a few
19 documents that have been cut out and pasted together to
20 render a meaning that bears no relation to the purpose or
21 meaning of either original reference.

22 Now, even if such cutting and pasting were
23 proper for a validity attack, Mylan still can't meet its
24 heavy burden, clear and convincing evidence, of proving
25 invalidity with the Ashley references. There is a glaring

1 hole in its proofs, your Honor. Namely, to borrow from Dr.
2 Rudnic's analogy, which I think was instructive, if the
3 Chang patent were instead a patent for a Big Mac, Mylan has
4 taken from the recipe book a disclosure of a bun from one
5 page, and all beef patties from another, an unrelated recipe
6 page, a disclosure of lettuce and cheese from some other
7 page, but at the end of the day, as both Mylan's counsel
8 and its experts admitted, Mylan still missing the so-called
9 secret sauce.

10 It's now undisputed that the key Chang claim
11 limitation of 30 milligrams of IR and 10 milligrams of DR
12 beads is completely absent from the Ashley references, as
13 it's absent, according to Mylan's own expert, from Mylan's
14 admittedly more distant '304 and '819 references.

15 And Dr. Friend's apparent surprise at the fact
16 that one Adderall patent using Microtrol technology has been
17 determined by the Patent Office to be patently distinct over
18 another of the same breed, both patents being closer in
19 their disclosures to one another than either is to Chang,
20 took the air out of Dr. Friend's unwarranted denigration of
21 Dr. Chang's truly inventive work as merely off-the-shelf
22 technology.

23 No doubt appreciating the shortcomings in its
24 validity attack, Mylan resorted to a somewhat unprecedented
25 tactic here. It tried to shore up the hole in the prior

1 art, not with another prior art reference, your Honor, but
2 with contemporaneous inspired modeling by Dr. Rubas. But
3 it's clear that Dr. Rubas's modeling, whatever it was
4 intended to convey, is not prior art, and it cannot credibly
5 be taken as objective evidence of the knowledge of a person
6 of skill in the art here.

7 Indeed, Dr. Rubas hedged both of his opinions by
8 saying that they were things that a person of skill could
9 have known -- could have known. But "could have" is not the
10 test. The statute requires that it would have been obvious,
11 and it requires both public disclosure and motivation.

12 Knowledge of one of ordinary skill in the art
13 still requires credible proof, and that proof is usually
14 supplied by contemporaneous literature cites, not by murky
15 modeling techniques used by a litigation expert who was
16 given Dr. Chang's invention and then was asked by Mylan to
17 show why, working backwards, that which he already knew was
18 not surprising.

19 That's not a proper validity attack. Even the
20 best of inventions look elegantly simple and unsurprising when
21 viewed in a false light, your Honor. From the ultimately
22 improper advantage of hindsight, Dr. Rubas' modeling simply
23 can't shore up a hole in Mylan's proofs here.

24 Now, the other art that Mylan relies on is
25 directed to different active ingredients like amphetamines,

1 different pharmacokinetic parameters like increasing blood
2 levels as opposed to maximum concentration, or different
3 effects like antibacterial effects. Mylan argues that
4 different individual elements were in the art, to be picked
5 and chosen from here and there, but it never shows that anyone
6 combined them, and it never shows that this combination would
7 have been obvious at the time of the invention instead of
8 in hindsight.

9 All Mylan is doing is cherry-picking various
10 pieces of the claimed invention from dozens of sources and
11 cobbling them together as if the Chang patent formulation
12 were already known and in hand. We can see that with the
13 Microtrol technology argument.

14 In its opening statement, Mylan's counsel argued
15 that the Chang patent inventors merely used off-the-shelf
16 technology to arrive at the Oracea formulation. But even
17 Mylan's expert, Dr. Friend agreed that so-called off-the-shelf
18 technology is appropriate for formulating all drugs. He
19 agreed with that.

20 There were no guarantees that Shire could have
21 developed it either. We saw, in Dr. Ashley's deposition
22 testimony yesterday, that before CollaGenex even approached
23 Shire to try to make a once-a-day formulation of doxycycline,
24 Faulding failed three times to do this. Just because
25 something can be taken off the shelf doesn't mean it will

1 work. We saw that with Faulding's failures.

2 Mylan's story about the invention of the Chang
3 claims makes no sense. On one hand, it urges that Chang was
4 just using Shire's Microtrol technology. On the other hand,
5 it says, no, Ashley actually invented all of this. They
6 can't have it both ways, and their arguments undercut each
7 other. The evidence shows that neither was the case.

8 First, Robert Ashley testified that he didn't
9 even know how to develop the Chang patent formulations.
10 The inventors are presumed to be correct. Mylan has the
11 burden of proving, by clear and convincing evidence, that
12 the invention was derived or that it's wrong, but all Mylan
13 showed was that CollaGenex had a goal and didn't know how
14 to accomplish it. That's not inventorship.

15 As this Court previously found, ironically, in
16 Purdue Pharma v Faulding, the very company that failed to
17 formulate a once-a-day doxycycline: The test for conception
18 is whether the inventor had an idea that was definite and
19 permanent enough that one skilled in the art could
20 understand the invention. An idea is definite and permanent
21 when the inventor has a specific settled idea, a particular
22 solution to the problem at hand, not just a general goal or
23 research plan he hopes to pursue here.

24 A side-by-side comparison demonstrates who
25 the real inventors of the formulations claimed in the Chang

1 patent is.

2 According to Robert Ashley, the objective of
3 his Ashley CR application was to define a pharmacokinetic
4 profile which avoided the spikes of concentration and had no
5 diminutions of concentration, but that he had no meaningful
6 idea of what composition might achieve that objective. He
7 didn't know how he was going to get there.

8 But as Dr. Chang testified, CollaGenex and
9 Mr. Ashley couldn't develop a product to achieve this goal.
10 The profile itself that was sought by Ashley was meaningless,
11 to use Dr. Chang's words. It was Chang and his team that
12 developed a product to achieve the goal to, as Dr. Chang put
13 it, to put some meaning to the value.

14 Now, inventors, as I said, are presumed to be
15 correct. Mylan has the burden of proving that inventorship
16 is wrong by clear and convincing evidence.

17 What did it show? That CollaGenex had a
18 goal and didn't know how to accomplish it. That Shire
19 accomplished it, and all CollaGenex did was "okay" Shire's
20 work. Again, a research goal is not conception of the
21 invention.

22 Mylan has put forth no evidence to contradict
23 Mr. Ashley's own statements that he didn't invent this.
24 None of it matters anyway. Absent deceptive intent, the
25 Court can fix inventorship if it feels as though it's proper

1 under 35 U.S.C., Section 256. Mylan hasn't attempted to
2 show any deceptive intent.

3 Now, returning to the four Friend references,
4 all of which we learned were brought to Dr. Friend's
5 attention by Mylan's counsel. Dr. Friend testified
6 yesterday that he believed that the Ashley references
7 were the closest prior art. But even as the closest prior
8 art, Dr. Friend agreed that the Ashley controlled-release
9 patents did not even disclose any formulation that was
10 tested or modeled or any formulation of immediate-release
11 and delayed-release beads at all.

12 Even as the closest prior art, Dr. Friend agrees
13 that a comparison of the hypothetical plasma profile of the
14 Ashley CR references, on the left here, figure 1, and the
15 Chang formulation, illustrated here on the right, figure 5,
16 were different. That is Mylan's closest prior art.

17 In fact, Dr. Friend agreed that the Ashley patent
18 applications do not teach the Chang patents. He admitted that
19 if you were trying to follow the disclosures of Ashley with
20 respect to the only release profile disclosed, you would not
21 be successful if you tried a 30-milligram IR to 10-milligram
22 DR combination. That's definitive, your Honor.

23 In his direct examination, Dr. Friend also relied
24 on two combinations of art in support of his obviousness
25 opinion. One combination included the minocycline, or Sheth

1 '304 patent, and Dr. Friend confirmed that minocycline and
2 doxycycline have different physical and chemical properties,
3 and he confirmed that the point of the '304 patent was to keep
4 the blood plasma levels in a concentration range where they
5 would act as an antibiotic.

6 Dr. Friend testified that he is not aware of
7 any disclosure in the '304 patent of anything other than
8 antibiotic doses of minocycline. That is at transcript, 846
9 to 847.

10 In view of all these differences, even
11 Dr. Friend testified that the '304 patent is not as close
12 to the Chang inventions of the Ashley patent applications
13 which the Chang patent issued over anyway.

14 Now, also according to Dr. Friend, there is no
15 particular reason why a person of ordinary skill in the
16 art would look to the Burnside '819 amphetamine patent
17 when attempting to formulate a once-a-day doxycycline.
18 Dr. Friend testified that the use of amphetamines is very
19 far indeed from the Chang patent.

20 Notably, Dr. Friend testified yesterday that he
21 could have chosen dozens of other examples, but Dr. Friend
22 didn't chose any. Mylan's counsel gave it to him.

23 Dr. Rudnic, a named inventor on this Burnside
24 '819 amphetamine patent, agreed. He testified that he
25 didn't think the patent had anything to do with the Chang

1 patent. He is the named inventor.

2 Now, we also learned yesterday from Dr. Friend
3 that a person of skill in the art, applying the teachings
4 of the Burnside '819 amphetamine patent, would violate the
5 important requirement that patient plasma concentrations
6 don't exceed 1.0 micrograms per mil threshold. So they
7 wouldn't meet the claim, according to Dr. Friend.

8 In the end, Dr. Friend doesn't dispute that
9 none of the references he relies on expressly disclose a
10 once-daily dose of doxycycline, a formulation with a
11 30-milligram IR portion and a 10-milligram DR portion,
12 formulations that result in steady state blood levels of .1
13 to 1.0 micrograms per mil or formulations that result in
14 steady state blood levels of between .3 and .8 micrograms
15 per mil.

16 So both sides' experts are in agreement at the
17 end of the day concerning certain critical facts about the
18 alleged prior art references. They simply don't meet the
19 important limitations of the Chang patent. So there can't
20 be any anticipation or any way to combine these references
21 to arrive at the Chang invention. They can't overcome that
22 failure of proof, your Honor.

23 Mylan's pharmacokinetics expert, Dr. Rubas
24 testified that he didn't even consider whether a person of
25 ordinary skill in the art in 2003 would have been motivated

1 to formulate an IR/DR once-daily product. Curiously, when
2 asked the question on cross, Dr. Rubas testified that he
3 didn't even understand why that was relevant. Well, it is.
4 This is because Dr. Rubas admits essentially that his
5 analysis was based on hindsight, which is prohibited by
6 the Federal Circuit precedent and the KSR decision.

7 Dr. Friend, himself testified that he relied on
8 Dr. Rubas's analysis, which, again, we know was tainted with
9 hindsight. So Dr. Rubas's improper hindsight analysis
10 taints Dr. Friend's opinions as well.

11 In sum, your Honor, Mylan's invalidity proofs on
12 Chang fall far short.

13 I'll go to the Amin patent, your Honor. I'll
14 turn to our third pile of art. Mylan cited over eight
15 references against Amin but it couldn't identify any of them
16 as invalidating art.

17 These are the eight references that Mylan relied
18 on. Six of the references are from Golub and Greenwald, two
19 of the inventors of the Amin patents, and the seventh one is
20 from the drug sponsor.

21 By Mylan's expert, Dr. Robbins' admissions,
22 though, none of these eight references expressly or
23 inherently disclose nitric oxide or inducible nitric oxide
24 synthase, and not one of them, according to Dr. Robbins,
25 discloses, expressly or inherently, the use of doxycycline

1 to inhibit nitric oxide or inducible nitric oxide synthase in
2 mammals.

3 I can show you where that appears in his
4 testimony, over and over, for each of these eight references.

5 Here at Robbins trial transcript, 735 to 736.
6 Again, on page 736. Again, on page 730. Again, with regard
7 to Schroeder on page 731, 737, 733, 732, and 731. For each
8 of the eight references, he made these critical admissions.

9 So we kept our promise in the opening that we
10 would show that they, by their own admission, admit that
11 there is no express or inherent disclosure of nitric oxide
12 or iNOS in any of the references they rely on.

13 Now, during trial, Mylan argued that the Amin
14 patents are inherently anticipated. But Mylan, first of
15 all, can't overcome the Robbins admissions that there is
16 no inherent disclosure; and it can't meet its heavy burden
17 of clear and convincing evidence that the prior art is
18 necessarily practiced anyway.

19 Mylan's own expert, Dr. Robbins can't say
20 whether doxycycline decreases NO or iNOS in two medical
21 conditions, periodontitis and rheumatoid arthritis, which
22 were the two medical conditions disclosed in the prior art
23 references that he relied on. He admitted with regard to
24 both of those conditions that he couldn't answer as to
25 whether doxycycline decreased iNOS expression or NO

1 production. That's at page 730 and 734 of the transcript.

2 He further reiterated his position -- I think
3 this is perhaps the most important piece of evidence -- his
4 position that the Amin patents were the first to disclose that
5 tetracyclines inhibit iNOS expression and NO production. The
6 first means novel.

7 As you can see, your Honor, none of their prior
8 art references even mention NO or iNOS. Mylan's own expert
9 has admitted novelty. How can Mylan prevail on its
10 invalidity defense.

11 Your Honor, we have demonstrated that the
12 objective indicia of nonobviousness also strongly point in the
13 same direction here, to validity. In fact, because these
14 common sense objective indicia of nonobviousness were so clear
15 on the their face and were established through Mylan's own
16 experts, Galderma didn't need to rely on separate rebuttal
17 testimony to prove secondary considerations. The admissions
18 from Mylan's experts, buttressed by the testimony of
19 Galderma's own experts, suffice.

20 First, long felt need.

21 The evidence demonstrates that there was a
22 need for a treatment for rosacea that did not cause side
23 effects, gastrointestinal upset, phototoxicity, and other
24 side effects which were viewed by dermatologists as, I think
25 Dr. Webster said, a big pain in the neck in the 80s and 90s.

1 The evidence showed a need for the treatment of
2 rosacea that did not cause antibiotic resistance.

3 Dr. Gilchrest testified to that and also testified that it
4 helped to address a very serious public health concern.

5 The evidence showed a need for a once-daily
6 dosage form to increase patient compliance. As Dr. Gilchrest
7 testified, she prescribes once-daily dosage forms because it's
8 easier for the patient and improves patient compliance.

9 Similarly, Dr. Friend testified that reducing
10 the number of doses required over a period of time improves
11 both patient compliance and therapeutic outcome.

12 Even today, Oracea remains the only orally
13 available approved treatment for rosacea.

14 Failure of others.

15 Dr. Rudnic told us the whole story as to why the
16 first tries by Faulding, a very fine formulation company,
17 failed to make a once-a-day formulation of this drug.

18 Robert Ashley confirmed that failure in his
19 testimony which we heard yesterday.

20 Unexpected results.

21 The results obtained by these inventions were
22 entirely unexpected. It was unexpected that subantibiotic
23 amounts would work to treat rosacea. Dr. Webster testified
24 to that.

25 Rosacea was thought by many to be bacterial in

1 origin. Others didn't know what caused it. It was treated
2 in any event, regardless of what one thought the etiology of
3 the disease was, it was treated by antibiotic dosages.

4 As Dr. Webster testified, the conventional
5 wisdom was to hit these bugs with high doses of antibiotics.
6 It was completely counterintuitive that small amounts of the
7 drug work, that subantibiotic amounts would work.

8 It was unexpected that once-daily dosing would
9 work for subantibiotic amounts of doxycycline. As Dr. Rudnic
10 testified, he would not have expected that it would have
11 succeeded given the absorption window, and he would not have
12 expected that any particular IR/DR combination of the claims
13 would have succeeded.

14 It was not expected that these levels would work
15 in any sort of once-a-day formulation. It was not expected
16 that the drug could exhibit substantially no side effects,
17 as shown in everyday practice with the drug, confirmed by
18 the testimony of Dr. Webster.

19 It was not expected that the drug would exhibit
20 no phototoxicity. As Dr. Webster testified, this has made
21 it a lot easier to treat patients year round, particularly
22 in the summer.

23 It was not expected that the drug would not
24 cause the same gastric upset in patients and the other side
25 effects that had been observed in the past.

1 So there is abundant testimony from experts
2 on both sides on the common sense factors to support
3 nonobviousness of the patents here.

4 Notably, Mylan hasn't even contested commercial
5 success in this case. They really can't. It hasn't
6 contested it at trial. Galderma's experts have testified
7 that Oracea is covered by each of the patents-in-suit here,
8 and Mylan did not dispute that at trial.

9 Mylan's own IMS data, which is DTX-2243,
10 regarding Oracea's annual sales by itself is sufficient to
11 demonstrates Oracea's commercial success. That IMS data
12 showed that annual Oracea sales doubled between 2007 and
13 2008 and again between 2008 and 2009, and Mylan itself
14 projected that Oracea's sales growth would just keep on
15 increasing, and it has. To date, sales since launch, just
16 a little over four years ago, totalled over a half billion
17 dollars.

18 Now, Mylan's own expert, Dr. Gilchrest admitted
19 that Oracea is a commercial success, and that it sells well,
20 in her words -- my words that she agreed with.

21 Dr. Webster attributed the commercial success to
22 the need that Oracea fills because of its patented features.

23 Mylan has failed to provide any evidence at
24 trial that Oracea sales are due to anything but the patented
25 benefits of Oracea. Mylan's expert, Dr. Gilchrest

1 testified: "... all physicians endeavor to make informed
2 decisions based on information and not on advertising
3 materials but based on objective evidence, and I do that
4 also."

5 She also testified that she had no information
6 that led her to believe that Galderma or CollaGenex have
7 been anything but truthful in their marketing of Oracea, in
8 their marketing about Oracea and its benefits.

9 Ultimately, why did Mylan's expert, Dr. Gilchrest
10 say that Mylan was pursuing a generic copy when I asked her
11 that question?

12 Because they believe it will be a successful
13 product. They want to hitch their wagon to Galderma's
14 successful product, Oracea.

15 So there is abundant unrefuted evidence of
16 commercial success and nexus to the claimed invention for
17 these patents.

18 In conclusion, your Honor, Mylan's product
19 infringes each of the assert claims of the patents in suit.
20 Mylan's invalidity defenses fell short of meeting their
21 clear and convincing burden as to all three patents. They
22 were forced to cobble together dozens of references in
23 Byzantine combinations just to make hindsight obviousness
24 arguments, but none disclosed the inventions. Despite these
25 piles of art that they have relied on, no one developed a

1 drug like this for decades. The alleged Feldman prior uses
2 were not public uses at all. They were uncorroborated then,
3 they were uncorroborated today, and they weren't public.
4 Dr. Feldman wasn't here to shed any light on it, and no
5 other witnesses were called that could do so from firsthand
6 knowledge. The common sense factors further confirm the
7 validity of all five patents.

8 Your Honor, in view of the evidence that we have
9 adduced at trial, we submit judgment should be entered in
10 favor of Galderma. Thank you.

11 THE COURT: You said several times in your
12 presentation that it's undisputed that Oracea practices or
13 is an embodiment of the five patents in suit. Other than
14 what you showed us that your experts testified to that fact
15 and you claim it's not contested, what else do you have or
16 is that all that you have to base your conclusion, your
17 contention that that fact is undisputed at this time?

18 MR. FLATTMANN: I rely on the testimony of our
19 three technical experts who testified that they compared
20 the Oracea label and Oracea to the asserted claims of the
21 patents in suit and concluded that Oracea was covered by
22 each of those asserted claims, and the fact that during the
23 course of the trial, none of Mylan's experts disputed that
24 conclusion.

25 THE COURT: Okay. Thank you very much.

1 MR. FLATTMANN: May I answer any other
2 questions, your Honor.

3 THE COURT: If I have more, I'll get back to
4 you.

5 MR. FLATTMANN: Certainly.

6 THE COURT: Thank you.

7 MR. FLATTMANN: Thank you.

8 THE COURT: I'll hear now from Mylan.

9 MR. STEUER: Your Honor, David Steuer for Mylan.
10 I'd like to start off by --

11 (Remote control handed to Mr. Steuer.)

12 MR. STEUER: They're going to see if I can
13 handle the clicking here.

14 I want to thank the Court and its staff for its
15 courtesy. I know the long days for the lawyers are long
16 days for the Court as well, and the Court has been very
17 gracious to me and our team and our staff.

18 Also, I think opposing counsel has been
19 aggressive but courteous. I do want to thank them, I should
20 have at the pretrial, but they moved that for my benefit to
21 make a long planned commitment.

22 Your Honor, I think the parties have presented a
23 good record for the Court to assist the Court in deciding
24 this very important case.

25 The Hatch-Waxman Act is an important feature of

1 this country's policy with respect to pharmaceuticals.
2 President Reagan said, when he signed into the law the
3 statute in 1984, that, "The Hatch-Waxman Act will provide
4 regulatory relief, increase competition, economy in
5 government and best of all, the American people will save
6 money, and yet receive the best medicine that pharmaceutical
7 science can provide."

8 So there is nothing wrong about a generic hoping
9 to compete and lower the cost. I think to the extent that
10 that is something that should be considered, it should be
11 considered by legislatures.

12 (Binders passed forward.)

13 The question for this Court is whether the five
14 patents are valid; and, if so, whether Mylan will infringe
15 them by selling its ANDA product.

16 I'm going to also review the evidence in the
17 way I previewed the evidence because I, too, believe in
18 pedestrian formulations so I'm not changing anything.

19 Let's start with the Ashley patents. Let's talk
20 about invalidity.

21 Your Honor, you saw Dr. Feldman. You had a
22 chance to see him speak. You had a chance to consider his
23 demeanor and his testimony. He was, we believe, entirely
24 credible, entirely forthright in his testimony, and he
25 testified to two separate instances of practicing the Ashley

1 patents before their priority date.

2 First, his own use. Dr. Feldman testified
3 clearly and convincingly that he learned at a dermatology
4 conference late in the 1990s that he could use Periostat 40
5 milligrams doxycycline, the especially preferred embodiment
6 of the Ashley patents, to treat his own rosacea. He
7 testified he used it for many months starting in late 1999.
8 He found that it reduced the papules and pustules on his
9 own face, on his chin.

10 He practiced the method of the Ashley patents.
11 This is a public use. Galderma has produced nothing to
12 contradict Dr. Feldman. Dr. Feldman said that after he used
13 the Periostat he was prescribed, he requested professional
14 courtesy samples, and that CollaGenex sent him samples. If
15 that Galderma could have disproved that at trial, they
16 certainly would not have hesitated to do so.

17 Dr. Feldman testified about the second instance
18 of practicing the Ashley patents prior to their priority
19 date when he prescribed Periostat in February 2000 for a
20 patient that suffered from rosacea. Dr. Feldman testified
21 that the reason he wrote the prescription for the patient is
22 that he, himself had a successful use of Periostat to treat
23 his own rosacea.

24 We have seen the patient record from the patient's
25 files, from Dr. Feldman's files, and we have also seen the IMS

1 data demonstrating that a patient of Dr. Feldman filled
2 a prescription for Periostat in March 2000. Of course,
3 the appointment with the patient of Dr. Feldman was on
4 February 19th, 2000.

5 Dr. Stafford testified that the IMS data leads
6 him to conclude that the patient in Dr. Feldman's patient
7 record was likely -- and he can't know 100 percent but was
8 likely the same patient who filled the prescription in
9 March 2000. That would make sense because Dr. Feldman
10 testified it was the only prescription he ever wrote.

11 The Court asked Mr. Flattmann a question during
12 his remarks about what the burden of proof is with respect
13 to evidentiary issues relating to an invalidity claim. I
14 think the Supreme Court recently gave guidance on that issue
15 in the Microsoft v i4i case. I think that was the exact
16 point of Justice Breyer's concurrence, so I think that
17 might be a good place. Justice Breyer pointed out although
18 the overall burden is clear and convincing proof, that
19 with respect to specific evidentiary facts, the normal
20 preponderance of evidence standard may well control.

21 I think that might be a good place to start on
22 the answer. We'll certainly brief that issue.

23 Now, Galderma claims there is no evidence the
24 patient ever filled the prescription, but Dr. Webster has
25 testified that it is to be expected that a patient will take

1 a prescribed drug.

2 When we asked him, "Question: And the
3 assumption you make is that they will in fact take it.
4 Correct?"

5 He answered: "Yes."

6 Indeed, one of the central assumptions of
7 Galderma's infringement theory is that patients prescribed
8 Mylan's ANDA product will take it, as Dr. Webster agreed.

9 Dr. Feldman's conclusion that his patient
10 had taken the Periostat is consistent with Dr. Webster's
11 testimony.

12 Now, Galderma appears to argue that because
13 Dr. Feldman did not count lesions or measure microflora, he
14 was not practicing the invention. However, Dr. Webster's
15 comments were not consistent with Galderma's theory.

16 Dr. Webster was asked whether, in order for
17 Mylan to infringe, that Galderma would need to count lesions
18 or take skin swabs? His opinion was that was not required.

19 I asked him: "So your opinion today is that we
20 know that a patient that takes this preparation will have a
21 reduction in lesions and no reduction in skin microflora?"

22 Dr. Webster said: "That is my opinion."

23 But even if Galderma were correct with respect
24 to whether lesions need to be counted to establish a use, it
25 turns out that Dr. Feldman testified explicitly to having a

1 reduction in pimples and pustules on his face. In fact, I
2 think he wrote for his chin at the time, and he said the
3 skin looked better.

4 Both Dr. Feldman's own use and his prescribing
5 of Periostat to his patient are public uses. A public use
6 does not require a journal article. It doesn't require a
7 patent application. Especially when it's a third party
8 who is not attempting, as Mr. Flattmann discussed, to take
9 credit for an invention. Dr. Feldman doesn't claim he
10 invented the Ashley patents.

11 The only element of either of Dr. Feldman's
12 uses that was private was the name of the patient, which is
13 not related to any limitation of the Ashley patents.

14 The use was obvious and in line with a world
15 of prior art described by Dr. Gilchrest. Here are some
16 examples:

17 In 1962, Murphy administered 125 milligrams of
18 oxytetracycline for 6 to 12 months to treat acne; and the
19 antibiotic dose for oxytetracycline was 1,000 milligrams.

20 Sneddon in 1966 of administered 100 milligrams
21 of a controlling dose of tetracycline to treat rosacea.
22 This was 45 years ago.

23 Marmion and Wereide in 1969 treated patients
24 with low doses of tetracyclines to treat rosacea.

25 Cotterill in 1971 administered 250 milligrams of

1 oxytetracycline for three months to treat patients for their
2 skin problems. And,

3 Bartholomew administered 500 milligrams of
4 oxytetracycline to treat rosacea.

5 One point about Murphy that Dr. Gilchrest
6 pointed out is that the dose of oxytetracycline that Murphy
7 used to treat his patients was so low, it actually fell
8 below the bottom bounds of the Ashley patent. That is why
9 it did not anticipate claim 23 of the Ashley patent.

10 There was a point made that these are all old.
11 Dr. Gilchrest explained to us, well, they're old because
12 there is no dispute about this. It was just well known that
13 papular rosacea is an inflammatory malady and that lower
14 doses of tetracyclines are effective in giving systemic
15 relief.

16 Here are some of the key quotes from these older
17 documents:

18 Marmion. There is a high degree of correlation
19 of the changes occurring -- I'm sorry. I'm ahead of myself.

20 This is about Pflugfelder. Pflugfelder was not
21 considered to be invalidating by the examiner. Of course,
22 Mylan did not have a chance to discuss their views of
23 Pflugfelder with the examiner, which is why we're trying
24 this. Dr. Gilchrest explained why the invention was made
25 obvious by Pflugfelder.

1 Now, the distinction that has been drawn is
2 that meibomian gland disease or ocular rosacea is a distinct
3 malady from facial rosacea. However, that does not stand up
4 to the prior art that was not shown to the examiner. The
5 examiner did not see Marmion or Bartholomew, so the examiner
6 was not aware of the high degree of correlation in the eye
7 with the skin decease and treatment that is effective for
8 the skin disorder, telling the art that it may therefore be
9 a value for treatment in the ocular condition.

10 Bartholomew said, systemic oxytetracycline is
11 thus a useful and safe treatment for ocular rosacea as well
12 as rosacea of the face. So it was actually long known in
13 the art that if you treat one, you treat the other.

14 Dr. Webster, who was, of course, Galderma's
15 witness on the Ashley patents, did not disagree that rosacea
16 and ocular rosacea are often seen in the same patient and
17 are related.

18 Now, the only witness on the Ashley patents for
19 Galderma was Dr. Webster. Dr. Webster is a distinguished and
20 accomplished physician/scientist, but he is not an independent
21 expert. He has been a paid Galderma and CollaGenex consultant
22 for many years. He admitted on cross that he actually advised
23 CollaGenex on developing the very product that is before the
24 Court.

25 He gave an answer that I don't think I have

1 heard before. When I discussed prior writings with the
2 witness, he said that he had the publisher change his
3 writing because he had, of course, stated on direct that
4 this was an amazing invention -- that was the word he used,
5 "amazing" -- to believe that a low dose of doxycycline could
6 be effective.

7 I challenged him on that. I said: Well, you
8 actually wrote that 50 milligrams a day may be an acceptable
9 dose, which is a little higher than the invention but not
10 much and certainly not a dose you would treat an infection.
11 He denied that. I showed him an exhibit, and he said that
12 the publisher probably put that in. These things happen
13 between the manuscript and the galleys.

14 This was really not Dr. Webster's best moment
15 because he actually said that in three different publications
16 that are all in evidence. In fact, he wasn't amazed at all
17 that a low dose of doxycycline could be effective because he
18 was already recommending low doses of doxycycline to the
19 profession and for treatment of patients. It's not surprising
20 because, as Dr. Gilchrest explained, rosacea hasn't been
21 considered an infectious disease for decades.

22 The Ashley patents, what we have here are some
23 quotes from the art that shows the state of knowledge, what
24 was obvious to someone of skill in the art about the nature
25 of acne, about the nature of rosacea. That they don't

1 change bacteria flora in the sebaceous gland, and that it's
2 an antiinflammatory process. This is not news. It was
3 known well before Ashley. It was known decades before Ashley.

4 1975, which is 36 years ago, Plewig stated, "The
5 fact is that it is not necessary to kill C. acnes; good
6 therapeutic effects can be obtained with non-inhibitory
7 levels." Non-inhibitory, non-antibiotic.

8 These studies have confirmed Plewig's
9 observation confirming the antiinflammatory activity and
10 lack of inhibition of bacterial growth in sebaceous glands
11 with low dose tetracycline compound treatment.

12 Let's talk about infringement.

13 In infringement, each and every claim has a
14 requirement that there be an amount of doxycycline that
15 does not significantly inhibit the growth of microorganisms.
16 This is a scientific issue. It implicates all microorganisms.
17 The patent isn't limited to a particular microorganism or a
18 particular location within the human body, as Dr. Webster
19 admits.

20 In the prosecution history, Mr. Ashley told us
21 that, "A skilled artisan would have no difficulty understanding
22 the phrase, 'substantially no antibiotic activity.' A few
23 of the more sensitive bacterial cells may be inhibited by a
24 subantibiotic dose of a tetracycline."

25 Now, doxycycline is one of the most potent of

1 antibiotics. It shuts down the protein metabolisms of
2 microorganisms. In other words, it inhibits their growth.
3 And doxycycline is broad spectrum, which means it inhibits
4 the growth of many microorganisms. When administered
5 orally, doxycycline circulates into every part of our body
6 or, as Dr. Chambers told us, wherever blood goes, it takes
7 doxycycline with it.

8 Dr. Chambers told us that our bodies contain
9 more bacterial cells than human cells. There are an
10 estimated 100 billion bacterial cells, to be exact. In
11 fact, by a factor of 10, which was a creepy fact I learned
12 during the prosecution of this case.

13 We know that more than a few of the more
14 sensitive bacterial cells, which is the words of the
15 inventors, are inhibited by a 40-milligram daily dose of
16 oxycycline, significantly more. We know that because
17 they have tested it.

18 Now, you heard from Dr. Chambers on this. I
19 don't think anybody has questioned his credentials and
20 knowledge when it comes to doxycycline, what doxycycline
21 does to the 1×10 to the 14th microorganisms in our bodies.

22 Dr. Webster, who is a dermatologist by training,
23 does not actually present to the Court the same background
24 and expertise that Dr. Chambers does. Dr. Chambers reviewed
25 five in vivo studies regarding 40 milligrams of a daily

1 companies of doxycycline, three of which Dr. Webster did not
2 address. Let's look at these studies briefly.

3 This is the Haffajee study from 2008. It was
4 funded by the NIH, and as stated by Dr. Chambers, figure 3
5 in the Haffajee study provides irrefutable evidence that
6 Mylan's ANDA product will significantly inhibit the growth
7 of microorganisms. Though the Court's claim construction
8 doesn't require that significance be significance to a
9 statistical measure, this is, in fact, a statistically
10 significant inhibition of growth.

11 The spike does not occur unless there is an
12 inhibitory effect. Dr. Chamber's opinion regarding
13 Haffajee's study is unrebutted. Dr. Webster didn't testify
14 about it.

15 Mr. Flattmann said that there is language in the
16 study that points against that. What that language pointed
17 to was they couldn't determine which particular strain were
18 the doxycycline resistance strains that grew.

19 Dr. Chambers said, in his sparring with
20 Mr. Flattmann, Mr. Flattmann was perverting the study.
21 Although I'm not going to be quite as colorful as maybe Dr.
22 Chambers can be at times, I do believe that that is true.
23 That if you read the study, the part that Mr. Flattmann
24 points to is just the part where they are saying they can't
25 break apart that group of resistant organisms to tell you

1 which ones exactly are the ones that took advantage of this
2 antibacterial effect of doxycycline.

3 We also talked about the Thomas study. Here,
4 Dr. Chambers told us that Table 2A provides irrefutable
5 evidence that Mylan's ANDA product will significantly
6 inhibit the growth of microorganisms. Again, this is a
7 spike that does not occur unless there is significant
8 inhibition.

9 Dr. Chambers' opinion regarding the Thomas study
10 is unrebutted. Dr. Webster didn't address it.

11 This is the Walker 2000 study, and Dr. Chambers
12 testified that Tables 1 to 3 all show Mylan's ANDA product
13 will significantly inhibit the growth of microorganisms. So
14 the graph of data from Table 1 from Walker 2000, data shows
15 significant inhibition of growth. Dr. Chambers' opinion
16 regarding the Walker 2000 study again is unrebutted.

17 So what do Haffajee, Thomas, and Walker 2000
18 study have in common other than the fact that Dr. Webster
19 didn't talk about them? All three studied the oral cavity,
20 and all three oral cavity studies proved Mylan's ANDA product
21 will significantly inhibit the growth of microorganisms. Dr.
22 Webster did not identify a single study of the oral cavity
23 that shows anything to the contrary.

24 So what are the studies that Dr. Webster did
25 rely on? He relied on the Skidmore study. Well, we showed

1 you that Dr. Skidmore doesn't know too much about the
2 Skidmore study. But whoever wrote it, that person didn't
3 provide data that allows a scientist to rule out the
4 possibility of a false negative.

5 Mr. Flattmann criticized Haffajee because it
6 didn't have a larger dose of doxycycline. The positive
7 controls rules out a false negative. It's not necessary to
8 rule out a positive. Just like a placebo is necessary to
9 rule out a false positive. Positive controls rule out the
10 false negative.

11 But in any event, Skidmore did not have a
12 positive control. It would have been interesting to see
13 what it would have look like if you had a 50-milligram dose
14 of doxycycline, which Galderma contends is antibiotic,
15 against the 40-milligram dose. Then we could see if there
16 really is an antibiotic threshold there.

17 Dr. Chambers explained that the data cannot be
18 interpreted. Therefore, no significant inhibition of growth
19 occurred. One of the subjects in the doxycycline group
20 suffered a case of vaginitis because of, as the author said,
21 the doxycycline. That, too, is a significant inhibition of
22 growth which caused the vaginitis. And Dr. Webster did not
23 opine otherwise.

24 With respect to the Walker 2005 study, once
25 again there was no positive control. Once again, the data

1 cannot be interpreted to include the possibility of a false
2 negative.

3 Dr. Chambers also found data that was suggestive
4 of significant inhibition of growth, but he said he really
5 can't be definite on that because he couldn't get any of the
6 underlying data.

7 Your Honor, the Court heard a lot of discussion
8 about the label. I believe that in this trial, the Court
9 has much more evidence about the label than it had earlier
10 when it ruled on it. In particular, now the Court has the
11 label history, which is, I believe, quite revealing.

12 Now, Dr. Webster interprets the label to mean
13 that Mylan's ANDA product will not significantly inhibit the
14 growth of microorganisms, but his interpretation is actually
15 not the language of the label.

16 Where he says no effect -- that the label
17 says it has no effect, what it actually says is that the
18 microbiological studies demonstrated no detectable long term
19 effects. We don't dispute those studies that are referenced
20 did demonstrate no detectable long term effects. That is
21 different from no effects.

22 It says that this dose should not be used to
23 treat bacterial disease. Well, of course, that is true.
24 There is no studies showing, for example, 40 milligrams of
25 doxycycline would knock out pneumonias or other infections.

1 That's why it says doxycycline should not be used for those
2 purposes. It's a direction to the physician on how to use
3 this drug. As all the doctors before the Court testified,
4 this is not a dose that you would use to cure disease.

5 I think Dr. Webster used the phrase such as, I
6 think you want to poke or punch the disease. This is not a
7 punching dose.

8 What Dr. Webster does is he basically reads
9 words that aren't in the dose -- aren't in the label. He
10 says that the package insert wording says clearly that for
11 the long term administration, there was no effect on the
12 bacterial flora of the oral cavity, skin, intestinal tract
13 and vagina. That is actually not what it says.

14 Again, he says that what the label says is that
15 there was no effect. That is just simply not what it says.
16 I think we saw some of that in Dr. -- in Mr. Flattmann's
17 discussion, which is what he described as being the label is
18 actually not what the label is.

19 Now, everyone agrees, even Dr. Webster, that a
20 therapeutic amount, in an amount that will significantly
21 inhibit growth are two very different amounts. They cannot,
22 and should not, be confused. So he said one dosage that
23 reaches antimicrobial effect, while inadequate to treat an
24 infection, could still alter the normal flora and have
25 changes induced therein. We agree with that. That is not

1 how we would treat infection, with such a lose dose.

2 We do think that perhaps the most telling
3 evidence regarding how the Court should interpret the label
4 comes from the FDA. The FDA insisted that certain changes
5 be made to the label before approving it. What the FDA
6 demanded is that the language that perhaps did directly read
7 on the patent be removed, be deleted. The FDA expressly
8 refused to allow Galderma to claim that Oracea does not
9 inhibit microorganisms. They took that out.

10 The FDA insisted on inserting the words
11 "detectable long-term" -- detectable long-term -- between
12 the words "no" and "effect." Dr. Webster acts as if those
13 new words never appeared in the label, but apparently the
14 FDA thought they were important enough that they should be
15 in there.

16 Dr. Flattmann talked about how we don't know
17 what "well below" or what the FDA thought "well below"
18 means. While I thought the argument would be stronger if
19 the FDA only struck the word "well" and allowed Galderma, or
20 actually CollaGenex, to continue to say that the amounts are
21 "below" the level required to inhibit microorganisms. They
22 took out the entire concept.

23 So the FDA was certainly not convinced. Although
24 they weren't a judge in a patent case, they certainly weren't
25 convinced that the limitation had been met by Galderma.

1 THE COURT: In passing, you referred to Mr.
2 Flattmann as Dr. Flattmann. He appreciates the promotion,
3 I'm sure.

4 MR. FLATTMANN: I appreciate that.

5 MR. STEUER: I think he is a doctor of law, your
6 Honor.

7 THE COURT: Let me ask you, what about the
8 deletion of the word "antibiotics" by the FDA at the same
9 time?

10 MR. STEUER: Well, I think what is interesting
11 here, and I don't have a slide on it, but if you look at the
12 entire label on it, for the Court, Section 5.1, in fact,
13 Oracea is described as an antibiotic. I don't know the
14 history behind that, i wasn't a participant in it, but the
15 label actually does repeatedly refers to the product as an
16 antibiotic.

17 THE COURT: But there is nothing in the record
18 as to what FDA was actually thinking and why they insisted
19 on these changes; isn't that correct?

20 MR. STEUER: Well, I wouldn't say there is
21 nothing in the record. We have the FDA memorandum which gives
22 their opinion on these reports. I read some language from the
23 FDA memorandum where they said -- and this is not too far
24 distant in time actually from the approval of this label --
25 where the FDA said we don't think you can extrapolate from the

1 evidence you give us to the conclusion that there is no effect
2 on microorganisms.

3 So to the extent we have a little window into
4 the FDA's thinking, I think the memorandum is helpful on
5 that. We don't dispute the accuracy of the label. We think
6 the label is fine. We think it's accurate.

7 Now, once again, I think we have to fall back
8 on the burden of proof here. It was incumbent upon Galderma
9 to show that there is no significant inhibition of
10 microorganisms in the body, in a human.

11 We are certainly aware from the Court's previous
12 ruling that the Court does not believe that in vitro
13 evidence will suffice to show that it isn't prudent, but
14 the in vivo evidence actually weighs strongly against the
15 argument for infringement, and the data is what the data is.

16 The claim limitation is a scientific inquiry and
17 the science is, yes, there will be significant inhibition.

18 Dr. Chambers, of course, also pointed out that,
19 as I just discussed, preempting my order of slides, that
20 their label does not speak to the specific issue of the
21 patent.

22 THE COURT: Before you move on.

23 MR. STEUER: Yes.

24 THE COURT: Answer for me whether, in fact, it
25 is contested that Oracea embodies the patent in suit, in

1 particular, the Ashley patents in what you have just gone
2 over.

3 MR. STEUER: No, we do not believe -- I believe
4 we have shown, based on Dr. Chambers' testimony, we do not
5 believe it practices the Ashley patents because we do not
6 believe that it does not significantly inhibit microorganisms
7 in the body.

8 THE COURT: What about the suggestion that you
9 effectively conceded that by not explicitly challenging it
10 during the trial?

11 MR. STEUER: Well, I do think that we challenged
12 it during the trial. Perhaps I didn't -- I can't cite a
13 specific phrase, but all our evidence was looking at the
14 specific preferred embodiment which Dr. Chambers pointed
15 out. The preferred embodiment is the 40 milligrams of
16 Periostat, 20 BID, which is the Haffajee study. We pointed
17 out that was the preferred embodiment. It caused the growth
18 of microorganisms. The resistant doxycycline microorganisms
19 rose.

20 So I actually thought that we were trying to
21 make that point that the preferred embodiment does not in
22 fact meet the limitation of the patents. I do think that I
23 would have to respectfully disagree with that assertion it
24 wasn't presented.

25 Well, the Amin patents are a different breed

1 because they don't mention rosacea. They're about reducing
2 these chemicals, nitric oxide and nitric oxide synthase.
3 I'm not going to talk a lot about the Amin patents. I think
4 the evidence and the arguments are pretty clear.

5 It's kind of an interesting patent because the
6 invalidity expert was dropped in the middle of trial. As I
7 want to discuss, the noninfringement here and the invalidity
8 are, I think, are quite strong on it.

9 Noninfringement, their basis of infringement is
10 the syllogism. They have no direct evidence of inhibition
11 of this chemical.

12 Dr. Grisham said he thinks there is overwhelming
13 evidence in the literature that this is a pathogenetic
14 mechanism, referring to rosacea, involved in the formation
15 of pustules and papules.

16 Well, nobody agrees with him. Dr. Robbins said
17 there is no evidence that nitric oxide is involved in the
18 pathogenesis of rosacea.

19 Dr. Webster said we still don't know convincingly
20 what the cause of rosacea is. And,

21 Mr. Ashley said I don't think that causality has
22 ever been proven, one way or the other.

23 What do the documents say? What do the studies
24 say?

25 Well, the study was actually, at one point,

1 relied on by Mr. Grisham. Dr. Grisham indirectly said:
2 Based on the results of the study, we conclude that the
3 inflammatory species nitric oxide has no role in the
4 inflammatory mechanism of acne rosacea.

5 What we want to show in the second slide is the
6 difference between what Oracea proposed and what was approved.
7 They proposed a label that stated that Oracea suppresses
8 various processes, including the processes in the Amin patent,
9 nitric oxide, iNOS, but the label says the mechanism of action
10 of Oracea in the treatment of inflammatory lesions of rosacea
11 is unknown.

12 Well, this actually does speak directly to the
13 patent. Like in the Bayer case, I think that the patentee
14 should be bound by its label right here.

15 Dr. Grisham, in fact -- just to point out that
16 the label is dispositive on this, Dr. Grisham says that he
17 disagrees with the statement in the label. So that is not
18 very helpful to Galderma on this.

19 But the question is, does Mylan product inhibit
20 iNOS or nitric oxide? So we asked him were you aware of any
21 studies, Dr. Grisham? And he said he wasn't.

22 But this is what the patent shows. This is a
23 test tube. It's from the patent, trying to show what
24 happens in the test tube when you try to inhibit iNOS and
25 reduce nitric oxide, or I might have that backwards. But

1 when you are dealing with these chemicals in the test tube,
2 see, nothing happens until there is actually quite a heavy
3 blood concentration or a heavy concentration in the test
4 tube.

5 Now, I know that on the Ashley patent, there is
6 a lot of discussion about how, just because it inhibits in
7 the test tube, it is much tougher to inhibit in terms of
8 antibiotics in the body, which Dr. Chambers disagrees with.

9 Well, here, there is no inhibition at this dose
10 level in the test tube, and there is no evidence at all of
11 inhibition in the body, so there is really just a complete
12 absence of proof here.

13 Let's talk about the invalidity of the patent.

14 What we're relying on here is inherent
15 anticipation. Of course, the law on this is that, "A prior
16 art reference may anticipate without disclosing a feature
17 of the claimed invention if that missing characteristic is
18 necessarily present, or inherent, in the single anticipating
19 reference."

20 This really describes the Amin patents to a
21 tee because what the Amin patents do, they recognize the
22 property. It talks about the tetracyclines, that they have
23 this inhibitory quality.

24 Here are the two experts to speak on invalidity,
25 Dr. Robbins and Dr. Oates.

1 As Dr. Robbins said, the prior art inherently
2 anticipates the Amin patents.

3 Dr. Oates didn't show up. I don't know why. I
4 guess Galderma felt they didn't need him.

5 Dr. Robbins also spoke about enablement. He
6 said that the patent does not enable the practice of the
7 art, particularly with respect to the low dose dosages. And,

8 Dr. Oates didn't speak to that.

9 Dr. Robbins was cross-examined on it, if I
10 recall correctly.

11 Finally, your Honor, let me, if I may, turn to
12 the Chang patent.

13 Again, I do think it's worth noting which
14 witnesses that Galderma chose to bring to trial and who they
15 didn't bring.

16 Galderma did not bring a single one of the three
17 named inventors, which is I think unusual, and especially I
18 think unusual when there is an inventorship issue that is
19 proposed, because we do believe that there is a terrible
20 inventorship problem with this patent.

21 Let's talk about infringement. To an extent,
22 this has played a larger role than it probably should in
23 the scheme of things.

24 Dr. Rudnic had an interesting infringement
25 opinion, which was free of both the Court's claim

1 construction and he decided not to read Dr. Ashley's or
2 Mr. Ashley's deposition because he thought it wouldn't be
3 interesting.

4 Now, Dr. Rudnic, like Dr. Webster, is not an
5 independent expert. He was an executive of the company that
6 created this patent. Dr. Rudnic is a colleague of the
7 inventors. So he is really not coming to this as we would
8 hope an independent expert would. He, like Dr. Webster, I
9 believe should be viewed more as a party expert.

10 I certainly don't discount Dr. Rudnic's ability
11 to create great drugs. That is admirable. I don't think
12 the ad hominums against Dr. Friend are particularly relevant
13 since it's clear from his professional resume that he has
14 been recognized as an outstanding formulation scientist, and
15 he has decided to try to work on addressing the problem of
16 AIDS in the developing world, so I don't think that means
17 that his opinion should be discounted.

18 Now, let me say on infringement, I think the
19 data speaks for itself. I don't think I need to go over it,
20 except I want to respond real briefly to the point about
21 the proposed facts this is a mistake, and to the extent
22 the mistake is taken as an admission or a waiver, there is
23 always an inquiry as to whether a waiver is knowing and
24 intentional.

25 This statement is from a part of the pretrial

1 findings that don't even address the Chang patent, and it's
2 not consistent with the pretrial findings we made on the
3 Chang patent. So I do think the best way to decide the
4 infringement on these two claims is to look to see within
5 the evidence that was presented allows the Court to conclude
6 that the data proves that Mylan's ANDA product will in fact
7 have steady state values that fall between the narrowed
8 values of these dependent claims. I don't think I'm going
9 to go beyond that.

10 The Court has probably heard enough about .3 and
11 .8.

12 Well, let's talk about invalidity.

13 I want to first address two of Dr. Rudnic's
14 points, because one of the questions that we have to deal
15 with is, is this an obviousness invention? Is this novel?

16 Now, first, Dr. Rudnic said that there was new
17 learning on the absorption window. The new learning was a
18 study that was done. It was actually a very neat study
19 where they had capsules explode at different places in the
20 body in the digestive system to see what the absorption
21 would be.

22 He said this is why no one else could do it,
23 because they had this undisclosed study; but it's a bit of
24 a puzzling argument to begin with, because the Court has
25 clearly seen that science has known for decades where

1 doxycycline is absorbed. It's absorbed in the duodenum.

2 One of the things I learned in this trial is how to

3 pronounce "duodenum."

4 If we can go to the next slide now.

5 Really, all you need to discount the argument
6 that Dr. Rudnic says is to pull out a calender. On December
7 17th, 2002, that's the date in which Shire and CollaGenex
8 went forward with the 75 percent/25 percent, and the report
9 from Scintipharma didn't even come out until 2003. There
10 is no testimony that anybody at Shire used that report. So
11 that is really just a posthoc suggestion by Dr. Rudnic. It
12 just doesn't stand up to the most basic scrutiny.

13 Dr. Rudnic also talked about the Faulding
14 failure and said that this isn't easy because Faulding tried
15 to do this and they failed. Faulding is an Australian
16 company.

17 But really that is not what Faulding shows, if
18 you look at it. Faulding was attempting a very different
19 and, frankly, a very novel approach, which was to change
20 the absorption site of the doxycycline. It only failed,
21 not because it didn't meet the Chang parameters, Dr. Rudnic
22 admitted it did, it wasn't bioequivalent. It met the Chang
23 patent's blood concentration ranges but it wasn't bioequivalent
24 to Periostat, which meant, as Dr. Rudnic explained, it would
25 have cost more and been harder to have the product approved,

1 because it wasn't bioequivalent.

2 Why did CollaGenex try such a strange approach?
3 It's really for the same reason it contracted the work with
4 Shire to work on Oracea: to come up with something it
5 could patent to avoid competition, to protect the Periostat
6 franchise.

7 An evergreen Periostat, as was candidly expressed
8 here, as Dr. Rudnic admitted, a simple 40-milligram instant
9 release doxycycline tablet or capsule is not going to be
10 patentable.

11 So I guess we ask ourselves how difficult was
12 this project to come up with this ratio, to come up with the
13 instant release, delayed release?

14 Mylan's experts, Dr. Rubas and Dr. Friend
15 testified about the relationship between the blood plasma
16 concentrations required by CollaGenex and the ratio of
17 instant release to delayed release that is in the patent.

18 Now, Galderma says that Dr. Rubas' work should
19 not be credited because he started with a total dose of
20 40 milligrams of doxycycline, and he knew what the desired
21 blood levels were so he was able to work backward. But, of
22 course, so did Shire. CollaGenex gave Shire all the same
23 parameters that Dr. Rubas received. In fact, they were all
24 in the Ashley patent.

25 So Dr. Rubas formed his opinion that a person of

1 ordinary skill in the art could determine this based on
2 exactly the same information that led the Shire people to
3 create their ratio.

4 Now, Mr. O'Malley yesterday latched on to a
5 phrase I used in my opening statement why I referred to
6 the three to one ratio as the "secret sauce," and I think
7 Mr. Flattmann hit me with it again today. So I want to
8 explain briefly why I used that phrase. It's a story.

9 When I was in high school, I worked at
10 Jack-in-the-Box. They sold hamburgers, and the hamburgers
11 had what they call secret sauce, and it was a marketing
12 term. The "secret sauce" was just mayonnaise and ketchup.
13 It was Thousand Island dressing.

14 THE COURT: Are you breaching your employment
15 agreement?

16 MR. STEUER: I don't believe I ever signed
17 anything except my paychecks for \$1.40 an hour.

18 So among us, amongst the cooks, "secret sauce"
19 was the joke, that you call something this simple and
20 obvious as "the bun" and you call it "secret sauce."

21 That is really the way I think we should view
22 this three to one ratio. It's really no more original or
23 it's any more special than the sauce I slopped on to the
24 Jack-in-the-Box hamburgers I made a few years ago.

25 Dr. Rubas and Dr. Friend showed how simple the

1 process really was. Dr. Rubas showed the vast literature
2 that was available to anyone who wanted to do the formulation.
3 Given the information that CollaGenex provided, Dr. Rubas
4 had no problem coming up with a graph that showed this
5 process.

6 Dr. Chang said, "So you give to anybody who know
7 the business, they can combination of all this to pick out
8 one they think is suitable for the product." And,

9 In his e-mail, he referred to this as a
10 straightforward project. That's in Defendant's Trial
11 Exhibit 1094.

12 We agree with him on that, of course.

13 I want to discuss another contention that
14 Dr. Rudnic said. This is a contention that you couldn't
15 just do a 40-milligram pill or tablet because it wouldn't
16 have accomplished the goals of the invention because it
17 would be too much. The blood levels would be too much.
18 That is what Dr. Rudnic testified.

19 That actually, of course, as we discussed, goes
20 against the language of the patent itself which says that
21 40 milligrams of doxycycline would work, but it's actually
22 confirmed by the PK experiments that were done by CollaGenex
23 on that 40-milligram dose.

24 They now say that they tested 18 subjects, it
25 was called a 103 study; and we'll detail it in our briefs,

1 your Honor; and they timed them at all the various time
2 points, half hour, hour, and so forth through 24 hours, and
3 one of the 18 subjects was barely over 1 microgram per
4 milliliter, and it was for only one reading, at the Cmax,
5 and it went right back down.

6 So, in fact, the data confirms what the
7 patent says, that 40 milligrams would have been just fine,
8 unpatentable but just fine in terms of accomplishing the
9 goal of the invention.

10 We should note that no one came up with any
11 evidence that the 1.0 level is anything other than a level
12 derived to avoid prior art.

13 We asked all the witnesses where did you get
14 this 1.0 antibiotic threshold? And they said, well, it's
15 in the literature or somebody told you. What is the
16 literature? I don't know. Who told you? I don't remember.

17 So I think we would have seen proof of that if
18 it existed. And I really think that's the more likely
19 conclusion that Mr. Ashley drew out of there.

20 Dr. Gilchrest told us there was no long felt need
21 for this product or any need at all for the combination. I
22 believe the patent itself confirms it, and that is, in fact,
23 the essence of product evergreening.

24 Now, as Dr. Friend made clear, the incorporating
25 Ashley patent anticipates every element of the Chang patent

1 expressly or inherently. As I see it, Galderma really
2 fights only on -- though I'm not sure Mr. Flattmann would
3 agree with this, I believe the fight is really joined on the
4 three to one ratio of instant release pellets to delayed
5 release pellets.

6 Dr. Rubas and Dr. Friend show how that ratio is
7 easily and simply calculated by one of skill in the art from
8 the information available in the Ashley '932 application,
9 and thus was inherent in the publication.

10 Finally, on invalidity, much is made the fact
11 that prior art previously advanced by Mylan was not part of
12 Dr. Friend's testimony. Well, I will say when we learned
13 that we had 13 hours to fight 45 claims in five patents, it
14 led to wondrous concentration, as Dr. Johnson once said, and
15 we did peel it off.

16 I do believe that the evidence that we gave the
17 Court is more than sufficient to invalidate this patent, but
18 I don't think there was any concession that the prior art
19 that was not called today was no longer of any use, and, in
20 fact, when Dr. Friend was redirected, he said no, I think
21 this does all invalidate it. So it's a matter of economy, I
22 think.

23 Let's talk about inventorship. The law is clear
24 here a patent can be invalidated if it has incorrect
25 inventorship.

1 I know that Mr. Flattmann said it's not a big
2 deal because inventorship can be corrected. It can be
3 corrected, but it doesn't correct itself. They would have
4 to make a motion; and to proceed on the patent, they would
5 have to get an assignment from the inventor. None of that
6 is here at the court, and so the Court is really not in a
7 position to nunc pro tunc correct any inventorship error.

8 The facts are really quite clear. The three to
9 one ratio or the 75 to 25 percent of IR beads to the DR
10 beads, which may well be the key element of the invention,
11 and, according to Shire, it was not Shire who thought of
12 the ratio.

13 This e-mail from a senior project manager said
14 it was CollaGenex who picked the ratio, which is what
15 Richard Chang said as well. He said it was picked by
16 CollaGenex, and he said the client is our God. Their God
17 picked this ratio.

18 We could just as well ask the inventors, and we
19 did, who invented Oracea. Here is what they said:

20 (Deposition clip played.)

21 "Question: Did you come up with the idea of a
22 75 to 25 ratio of IR beads to DR beads?

23 "Answer: I don't recall.

24 "Question: You don't recall having done so?

25 "Answer: I don't recall having done so, yes.

1 "Question: Okay. But you don't recall coming
2 up with the idea that we ought to pursue 75:25?

3 "Answer: I don't recall.

4 "Question: Right. But who first came up with
5 the idea of 75:25? Did it come up from the CollaGenex guys
6 or did you propose it to them?

7 "Answer: At least I didn't propose. So I don't
8 know who -- who proposed.

9 "Question: You personally --

10 "Answer: I personally.

11 "Question: -- did not propose 75/25?

12 "Answer: No.

13 (Deposition clip ends.)

14 MR. STEUER: So here you have the three
15 inventors denying the invention. Is three to one important?
16 Well, it certainly seems to be because that's the basis for
17 them resisting the Ashley patent application.

18 I think this is a big problem for Galderma that
19 it really can't overcome. If it argues that the exact
20 ratio is not particularly important or not particularly
21 significant and all that matters is that there was work done
22 on a range of values and that the specific value is not that
23 important, then they really lack the argument that Ashley
24 doesn't anticipate.

25 However, they have argued that, in fact, it is

1 unique and special. That really goes to the Purdue Pharma
2 quote they put up there, because Purdue said that a specific
3 settled idea is what we figured to invent here.

4 Three to one is a specific entitled idea, and
5 Galderma has certainly taken the position that it is. None
6 of the three gentlemen listed on the patent corrected it or
7 claimed it.

8 The Chang patent, your Honor, we believe is an
9 invalid patent. It should be invalidated. The only thing
10 it accomplished really is to provide market protection for
11 CollaGenex to extend, and what an extension it was. Their
12 Periostat franchise, through a straightforward combination
13 of pellets, serves little purpose other than to protect that
14 franchise.

15 Your Honor, this is a case about patents, not
16 whether the law is misguided. Under the law here, the
17 patents are not valid. Applying the law, Mylan does not
18 infringe.

19 THE COURT: Thank you. You both have been very
20 efficient with your time. I will give you a few minutes to
21 rebut one another, if you wish to do that.

22 MR. FLATTMANN: Thank you very much, your Honor.

23 Your Honor, we heard about Feldman again, but
24 nothing that was said in my colleagues closing addressed the
25 key issue here. The key issue is was Feldman prior art?

1 Was it publicly disclosed? There was not a word about that.

2 Where is the public disclosure in the evidence
3 that was adduced at trial? We have one document, Feldman's
4 patient record, and we know it was kept under lock and key
5 until last year in this litigation, when it first emerged.
6 Until then, none of this was public, and none of it was
7 prior art.

8 Where was this Westwood Conference in 1998 and
9 1999, if it really happened? If all this really happened,
10 where is the evidence of it? The law requires corroboration.
11 Where is it?

12 Our case doesn't hinge on Dr. Feldman's
13 credibility. We certainly believe him when he says that he
14 did not publicize his personal use. We believe him when he
15 says he doesn't know if the patient took the drug.

16 Counsel made a statement that public use doesn't
17 require a journal article or a publication. Well, here, the
18 problem is that there is no evidence that the drug was ever
19 administered. As Your Honor knows, the claim requires a
20 method comprising oral administration of this drug to an
21 actual patient. So there is a failure of proof here that
22 there is any prior art or any public use, your Honor.

23 Dr. Webster's testimony was taken out of
24 context at least twice in Mylan's closing. He said that, as
25 to whether patients take their medication, he called that a

1 deeply flawed assumption, on trial transcript 157 and 158,
2 and explained that much further.

3 With regard to the claimed ranges that are
4 mentioned in some of his papers, he explained on redirect
5 that those numbers were the available dosages, and he did
6 not believe that he should be treating the disease with
7 50 milligrams. That's at transcript 168 to 169.

8 Could you please put up PDX-845.

9 We showed with Dr. Gilchrest on cross-examination
10 that the additional references that were referenced in
11 counsel's closing, the Plewig reference and Braun-Falco
12 references disclosed antibacterial numbers. That is clear
13 from her testimony and transcript 538 through 539.

14 With regard to Plewig, she said that the Plewig
15 inventors concluded beyond a doubt that antibiotic activity
16 of antibiotics accounted for the therapeutic benefits.

17 With the other Plewig article, she agreed that
18 1,000 milligrams was used, and that was an antibiotic dose.

19 With regard to Braun-Falco, 1,000 and 1,500
20 milligrams was used, which was also an antibiotic dose.

21 So these references, even if they were
22 appropriately considered as part of the body of prior art by
23 the Court, and they should not be, they point in the other
24 direction.

25 Now, please put up PDX-818.

1 I was taken to task to some degree in closing
2 for my reading of the Haffajee article. Dr. Chambers took
3 me to task on that as well, I believe.

4 But the language is plain. It says: The
5 question as to whether the same strains of a given species
6 were resistant pre- and post-therapy to the administered
7 agents or whether new resistant strains or strains resistant
8 to multiple antibiotics had emerged could not be answered.

9 Dr. Chambers resisted I think the plain meaning
10 of those words and insisted that the Haffajee inventors had
11 found resistance based on some sort of antibiotic activity.
12 That is not in there, and Haffajee is not on Mylan's label.

13 Now, much was made of Dr. Chambers' testimony on
14 direct that he believed that the Walker 2000 and Thomas
15 article did not support the Mylan label claim.

16 Well, he said the opposite in his testimony. If
17 you go to his cross-examination testimony on the Skidmore,
18 Walker 2005, Walker 2000 and Thomas articles and transcript
19 cites 612 through 625. He, again and again, agrees with the
20 fundamental conclusions of each of these articles that there
21 is no effect on microflora, that these are subantibiotic
22 amounts. That all four of these studies, these in vivo
23 studies support the Mylan label.

24 He is cherry-picking around the edges in his
25 direct testimony, and that was revealed on cross when he

1 agreed with the broad statements of these articles are in
2 the label.

3 Now, please put up PDX-813.

4 There is a part of the label that you didn't
5 hear about in Mylan's closing, and that is a part of the
6 label that they can't run from, and that Dr. Chambers
7 couldn't run from. It's the part where they say it should
8 not be reduced from reducing the numbers or eliminating
9 microorganism associated with any bacterial disease.

10 The reason they can't run from that or address
11 it is because that goes directly to the fact these amounts
12 do not significantly inhibit the growth of microorganisms.
13 That is a match-up. In however many ways they want to
14 parse the other language and say, well, it's not a perfect
15 match-up, there are a couple of qualifying words, et
16 cetera, this is directly reading on that, on your claim
17 construction. That is why you didn't hear about it during
18 the testimony of any of their experts or in the closing.

19 THE COURT: They say that language is a
20 direction to doctors as to what they should and should not
21 do with the 40-milligram dose and that, therefore, doesn't
22 really say what you contend it says.

23 MR. FLATTMANN: Well, it's a direction to
24 doctors that this drug is not to be used for reducing the
25 numbers. That is exactly why they're inducing infringement

1 here, because they're providing this direction to the people
2 who are actually administering the drugs, the people who are
3 the direct infringers, so to speak. That is clear from the
4 law that we cited at the time of the preliminary injunction
5 and we'll cite again in our post-trial briefs.

6 THE COURT: A direction to a doctor "don't use
7 it for this purpose" is, to you, the same thing as "it will
8 not do the following?"

9 MR. FLATTMANN: Well, it's a little different.
10 It says it should not be used to reduce. It doesn't say
11 don't use it, it says it should not be used to reduce. So
12 it's saying that this product isn't effective for that; and
13 when read in conjunction with the other admissions in the
14 label that there is no detectable long term of effect on
15 bacterial flora and the other admissions that we've gone
16 through, it would be clear that that is, as a whole,
17 evidence that shows infringement here.

18 They're directing a doctor that, as administered
19 here, administered in accordance with the label they're
20 promulgating, that they're agreeing to in order to sell this
21 drug, that you will not reduce the numbers or eliminate
22 microorganisms with this product. That is not the intended
23 use. That is not how they're telling doctors and patients
24 to use it. That controls as a matter of law, and they
25 didn't address that.

1 Now, I think another thing that they did not
2 address or explain was that Dr. Gilchrest admitted that the
3 amount used in the Mylan product is subantimicrobial.

4 Could you please go to PDX-816.

5 She admitted that the preferred embodiment,
6 Periostat, does not alter bacterial flora. She called
7 Periostat, the preferred embodiment, a subantibacterial
8 dose.

9 They didn't say a word about Dr. Gilchrest or put
10 her picture up on the board. That also obviously goes to
11 whether Oracea is covered by the claims, the 20 milligrams
12 twice a day and 40 milligrams of the FDA is comparable.

13 Now, again, Dr. Gilchrest made this admission,
14 and it doesn't matter that it was made in the context of a
15 different opinion in the case. They can't have it one way
16 for invalidity, or validity, and another way for infringement
17 here.

18 Now, again, I think it's very important to
19 point out, your Honor, that they're arguing that the
20 preferred embodiment is not included within the invention.
21 They're saying that Periostat -- not Dr. Gilchrest but
22 Mylan's counsel and Mylan are saying that Periostat is not
23 a subantibacterial amount. Well, Periostat, as the named
24 preferred embodiment, is presumed to be included within the
25 scope of these claims.

1 Now, with regard to Amin, I just have a few
2 short points. They suggested that there might have been
3 some reason why we didn't call a rebuttal expert,
4 Dr. Rhoads. Well, we hardly need to call a rebuttal expert
5 if their expert says that none of his art anticipates.

6 They rely on inherency, supposedly, but their
7 expert said explicitly that none of the eight references
8 anticipated inherently or directly. He said there was no
9 express or inherent disclosure in any of those references of
10 nitric oxide or iNOS. Since they already dropped their
11 obviousness defense, there was hardly any reason to refute
12 or rebut what he had left to say. He had already done in
13 his own references.

14 They say it's all inherent, but they also say
15 it's not enabled. I suggest that that is impossible
16 contradiction in their arguments before the Court.

17 As to Chang, I was incredibly surprised to hear
18 that they now think that their proposed facts in the pretrial
19 order were a mistake. Well, if they were a mistake, why did
20 Dr. Chambers agree to them when I asked him those questions on
21 cross-examination? Why did Dr. Friend accept those numbers
22 when he was asked those questions? The Chambers admission is
23 telling. And the trough concentration of Mylan's drug doesn't
24 depend on what patient Mylan is arguing about at the time.

25 Now, in terms of Dr. Rudnic, there was a

1 suggestion that he didn't read the claim construction or
2 apply it. I think that was clarified in his redirect at
3 transcript 256 and 257 where he explained just the opposite.

4 Now, I was also surprised to hear now, even in
5 the closing argument, they have proposed yet another new
6 theory concerning why the Chang patent is invalid involving
7 some sort of testing some document. We didn't hear a word
8 about that at trial. Who testified about that?

9 We also heard secret sauce is some sort of a
10 joke. Well, they couldn't find it. They couldn't find this
11 supposed joke anywhere in any of the formulation art of this
12 three to one IR to DR ratio.

13 As to inventorship, Your Honor, certainly if you
14 bought their theory on inventorship -- and I don't think
15 you should without the authority to add Ashley. It's not
16 a problem. Ashley has already assigned his inventions to
17 CollaGenex, and CollaGenex was bought by Galderma, and there
18 is nothing in the statute that would preclude you from doing
19 that if you felt it was appropriate, but there is absolutely
20 no need to do so.

21 The people who put the secret sauce into the
22 formulation were undeniably the Chang inventors. Their
23 testimony on that issue and Dr. Chang's testimony on that
24 issue was very clear. He testified that although these
25 numbers may have existed and may have been part of the wish

1 list that was given to him by CollaGenex that they were
2 meaningless until he made them a reality. Dr. Chang created
3 the special sauce, and he created the formulation with his
4 co-inventors, and no one else did before them, and they're
5 unable to point to any evidence of that.

6 Thank you, your Honor.

7 THE COURT: Thank you very much.

8 Mr. Steuer, you can have the last word, if you
9 wish.

10 MR. STEUER: Thank you, your Honor. I have not
11 much more than the last word. And the last word is that
12 Robert Ashley did not claim that he was the inventor of the
13 three to one. So I think it would be a remarkable act of
14 the Court, as invited by Galderma, to name Robert Ashley an
15 inventor when he didn't even testify that he was the person
16 at CollaGenex that came up with Oracea.

17 I believe on that, the record is clear. It was
18 someone at CollaGenex. It might have been Ashley, it might
19 not have been Ashley, but whoever that inventor is who came
20 up with this ratio that the plaintiff relies upon was not
21 any of the three gentlemen named on the patent.

22 THE COURT: Thank you. I thank both sides for
23 your efficient and effective advocacy, and your efficient
24 use of time. We'll look forward to receiving your briefs
25 later this month, and we'll take these issues under

1 advisement.

2 Safe travels to all of you.

3 (The attorneys respond, "Thank you, your Honor.")

4 (Trial proceedings end at 11:45 p.m.)

5

6

7 I hereby certify the foregoing is a true and accurate
8 transcript from my stenographic notes in the proceeding.

8

9

/s Brian P. Gaffigan
 Official Court Reporter
 U.S. District Court

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